

User Manual

V01

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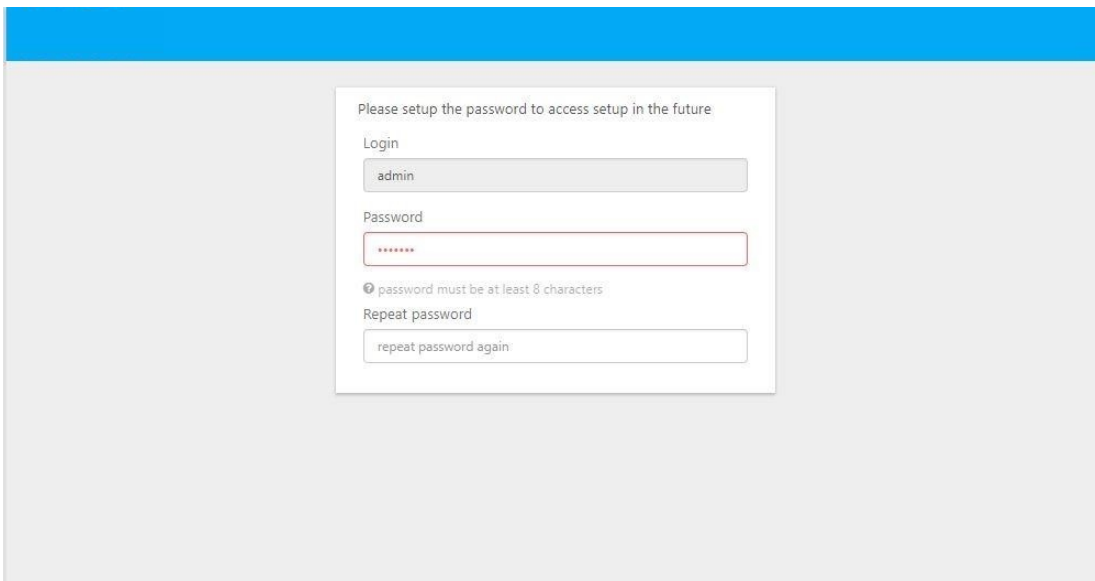
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Configuration

Follow below easy setup steps to setup your R36A

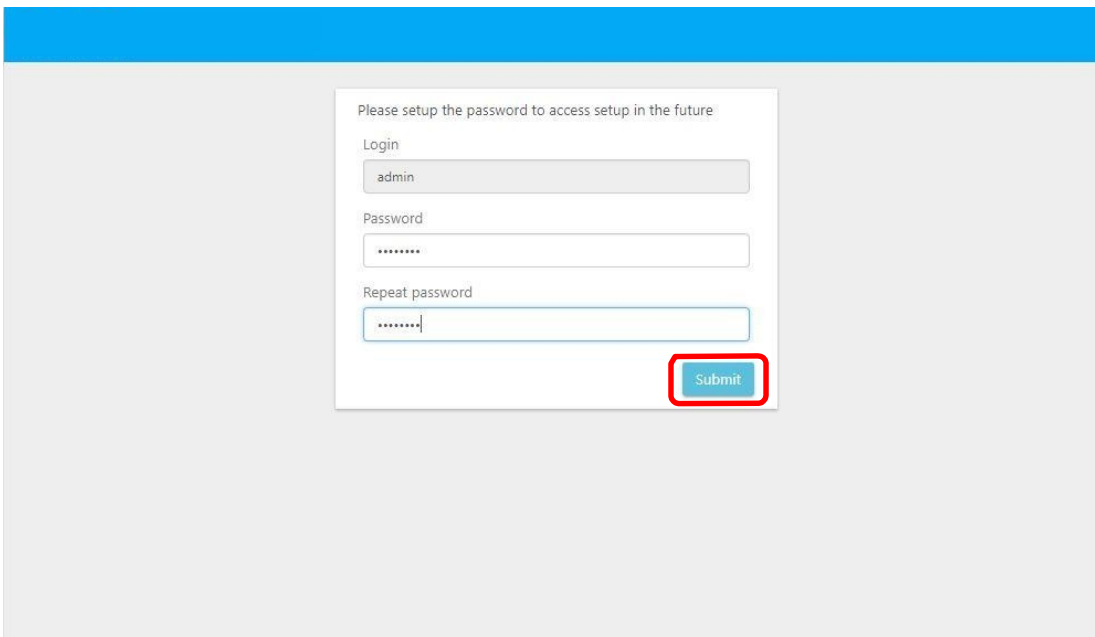
1. Login Page

- When first time setup your R36A, you must setup your own password (for security reason can not allow below 8 characters) to access setup



The screenshot shows a web interface with a blue header bar. Below it, a white box contains the text "Please setup the password to access setup in the future". Inside this box, there are three input fields: "Login" with the value "admin", "Password" with masked characters "*****", and "Repeat password" with the placeholder text "repeat password again". A small red error message "password must be at least 8 characters" is visible below the Password field.

- ### 2. After you setup your own password, click “ Submit” button to go to setup page (it will required password for future setup)



This screenshot is identical to the one above, but the "Submit" button at the bottom right of the white box is highlighted with a red rectangle. The "Repeat password" field now contains masked characters "*****".

3. When your R36A hardware install properly, you should see below network discovery page.

Note: if you don't see this page, please go to troubleshooting section at last section of user manual

Pick network to extend				
	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR		7	00:C0:CA:87:3F:BC
🔒	Longwell		11	00:00:00:00:00:00
🔒	WISP-NR-2G		2	00:00:00:00:00:00
	Alfa hotspot		6	00:00:00:00:00:00
🔒	80_2G		6	00:00:00:00:00:00
	WISP		1	00:00:00:00:00:00
🔒	WISP-2G		11	00:00:00:00:00:00
🔒	WISP-2G		10	00:00:00:00:00:00
🔒	WISP-2G-2G		4	00:00:00:00:00:00
🔒	WiFiCampPro2-PM		1	00:C0:CA:A5:09:9B
🔒	WISP-2G		6	00:00:00:00:00:00
🔒	WISP-2G-2G		2	00:00:00:00:00:00
🔒	WISP-2G		6	00:C0:CA:00:0A:0B
🔒	192.168.10 Bridge		9	00:00:00:00:00:00

4. Pick up the Hotspot AP you wish to connect and click "Select" button

Pick network to extend				
	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR		7	00:C0:CA:87:3F:BC
🔒	Longwell		11	00:00:00:00:00:00
🔒	WISP-NR-2G		2	00:00:00:00:00:00
	Alfa hotspot		6	00:00:00:00:00:00
🔒	80_2G		6	00:00:00:00:00:00
	WISP		1	00:00:00:00:00:00
🔒	WISP-2G		11	00:00:00:00:00:00
🔒	WISP-2G		10	00:00:00:00:00:00
🔒	WISP-2G-2G		4	00:00:00:00:00:00
🔒	WiFiCampPro2-PM		1	00:C0:CA:A5:09:9B
🔒	WISP-2G		6	00:00:00:00:00:00

Select >

5. ① Type in Hotspot Password if required by your selected Hotspot
② Also, required to setup your own R36A Wireless Password for device to wireless connect your R36A
Note: ③ If Hotspot has many same Name APs and you want to Lock to specified Hotspot AP, you can select Lock Hotspot MAC button to lock the AP

System Status UNINITIALIZE
Firmware Version v1.10 US

Easy Setup
Status
Local Network
Tools
System
Logout

Hotspot configuration

Connect your CampPro to camp ground or other Wi-Fi signal

Hotspot Name 80_2G

Click here to pick the network you want to extend

Lock Hotspot MAC Off

Only try to connect this AP

Encryption WPA2-PSK

Hotspot Password

Enter the password for the network you are extending
(if you do not know it, contact your camp ground support)

Network Type Dynamic (DHCP)

Hostname WiFiCampPro2

DNS server Auto

Internet configuration

Network Name WiFiCampPro2-A56BE8

Network Password

password must be at least 8 characters long

<< BACK FINISH >>

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6. After fill in all required information, then click “Finish” button

Hotspot configuration

Connect your CampPro to camp ground or other Wi-Fi signal

Hotspot Name 80_2G

Click here to pick the network you want to extend

Lock Hotspot MAC Off

Only try to connect this AP

Encryption WPA2-PSK

Hotspot Password

Enter the password for the network you are extending
(if you do not know it, contact your camp ground support)

Network Type Dynamic (DHCP)

Hostname WiFiCampPro2

DNS server Auto

Internet configuration

Network Name WiFiCampPro2-A56BE8

Network Password

password must be at least 8 characters long

<< BACK FINISH >>

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7. The R36A will reboot after finished setup

Note: Please reconnect your WiFi with correct SSID and Network Password

Hotspot Name ASUS_80_2G

Click here to pick the network you want to extend

Lock Hotspot MAC Off

Only try to connect this AP

Encryption WPA2-PSK

Hotspot Password

Enter the password for the network you are extending (if you do not know it, contact your camp ground support)

Network Type Dynamic (DHCP)

Applying changes

Waiting for changes to be applied...

Hostname WiFiCampPro2

**** Please reconnect Wi-Fi and select the "WiFiCampPro2-A56BE8" network ****

Note: "WiFiCampPro2-A56BE8" is the Network Name, which is based on user's setting

Internet configuration

Network Name WiFiCampPro2-A56BE8

Network Password

password must be at least 8 characters long

8. After successful setup, you will see status page with green "Connected" information

Internet Status **CONNECT**

Firmware Version v1.10 US

Easy Setup

Status

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Logout

Internet Status

Type USB Wireless

SSID .80_2G [447F6B224580]

RSSI (Bitrate) -47 dBm (57.8 Mbit/s)

Address 192.168.1.233 / 255.255.255.0

Gateway 192.168.1.1

DNS 192.168.1.1

Expires 86390

Uptime 10

Session 79

WiFiCampPro2 Status

Mode Access Point

SSID WiFiCampPro2-A56BE8

Channel 5 (2.432 GHz)

Bitrate 0 Mbit/s

BSSID 00:C0:CA:A5:6B:E8

Encryption WPA2 PSK (CCMP)

Linked Devices Status

Hostname	IP Address	MAC Address	Signal / Noise / Leases	Interface
----------	------------	-------------	-------------------------	-----------

System

Hostname WiFiCampPro2

Model ALFA Network R36A

Firmware Version WiFiCampPro2-v1.10 US

Local Time Tue Sep 11 14:25:33 2018

Function Menu Description

1. Easy Setup

The screenshot displays the 'Easy Setup' menu on the left, with 'Hotspot configuration' selected. The main area is divided into two sections: 'Hotspot configuration' and 'Internet configuration'. The 'Hotspot configuration' section includes fields for 'Hotspot Name' (with a scan icon), 'Lock Hotspot MAC' (a toggle switch set to 'Off'), 'Encryption' (a dropdown menu set to 'WPA2-PSK'), 'Hotspot Password' (with a lock icon), 'Network Type' (a dropdown menu set to 'Dynamic (DHCP)'), 'Hostname' (set to 'WiFiCampPro2'), and 'DNS server' (a dropdown menu set to 'Auto'). The 'Internet configuration' section includes 'Network Name' (set to 'WiFiCampPro2-A568E8') and 'Network Password' (with a lock icon). At the bottom, there are '<< BACK' and 'FINISH >>' buttons, and the 'ALFA Network Inc.' logo.

- Hotspot Name: By click the  scan and select the name of the Hotspot AP to connect.
- Lock Hotspot MAC: When click  Only the MAC of this Hotspot AP allow to access internet

Hotspot MAC 00:C0:CA:87:3F:BC

- Encryption: It shows automatically when the Hotspot SSID was scanned

The screenshot shows a dropdown menu for encryption. The selected option is 'WPA-PSK'. The menu lists the following options: 'No Encryption', 'WEP Open System', 'WEP Shared Key', 'WPA-PSK', 'WPA2-PSK', 'WPA-PSK/WPA2-PSK Mixed Mode', 'WPA-EAP', and 'WPA2-EAP'.

Here are the supported Encryptions

- Hotspot Password: Just type Hotspot password to connect the Hotspot.
- Network Type: 5 Types of Hotspot Network are supported Static (Fixed), Dynamic (DHCP), L2TP, PPPoE and PPTP
- Hostname: WiFiCampPro2 is the default hostname or name another for your own prefer.
- DNS server: You can Manual add another DNS server list or by Auto

2. Status:

The screenshot displays the 'Status' page of the WiFiCampPro2 interface. The top navigation bar is blue with 'Internet Status' and a green 'CONNECT' button. The left sidebar contains menu items: Easy Setup, Status, HotSpot Settings, Local Network, Tools, System, and Logout. The main content area is divided into three sections: Internet Status, WiFiCampPro2 Status, and Linked Devices Status. The Internet Status section shows connection details like Type (USB Wireless), SSID, RSSI, Address, Gateway, DNS, Expires, Uptime, and Session. The WiFiCampPro2 Status section shows Mode (Access Point), SSID, Channel, Bitrate, BSSID, and Encryption. The Linked Devices Status section is a table with columns for Hostname, IP Address, MAC Address, Signal / Noise / Leases, and Interface. The System section shows Hostname, Model, Firmware Version, and Local Time.

Internet Status	
Type	USB Wireless
SSID	80_2G [80:27:FA:62:43:80]
RSSI (Bitrate)	-47 dBm (57.8 Mbit/s)
Address	192.168.1.233 / 255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1
Expires	86390
Uptime	10
Session	79

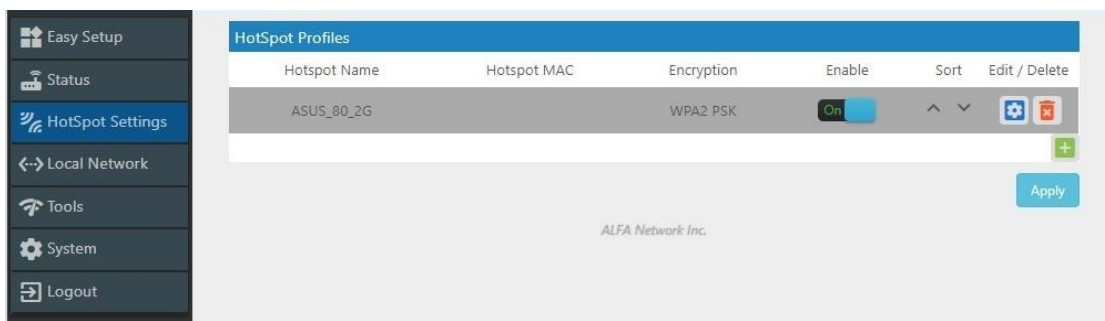
WiFiCampPro2 Status	
Mode	Access Point
SSID	WiFiCampPro2-A56BE8
Channel	5 (2.432 GHz)
Bitrate	0 Mbit/s
BSSID	00:C0:CA:A5:6B:E8
Encryption	WPA2 PSK (CCMP)

Linked Devices Status					
Hostname	IP Address	MAC Address	Signal / Noise / Leases	Interface	

System	
Hostname	WiFiCampPro2
Model	ALFA Network R36A
Firmware Version	WiFiCampPro2-v1.10 US
Local Time	Tue Sep 11 14:25:33 2018

- **Internet Status** **CONNECT** The Hotspot was successfully connected to your R36A
- **Internet Status** Now you can get the IP address from the Hotspot DHCP Server, RSSI readings and other info.
- **WiFiCampPro2 Status** Your local WiFi Network info.

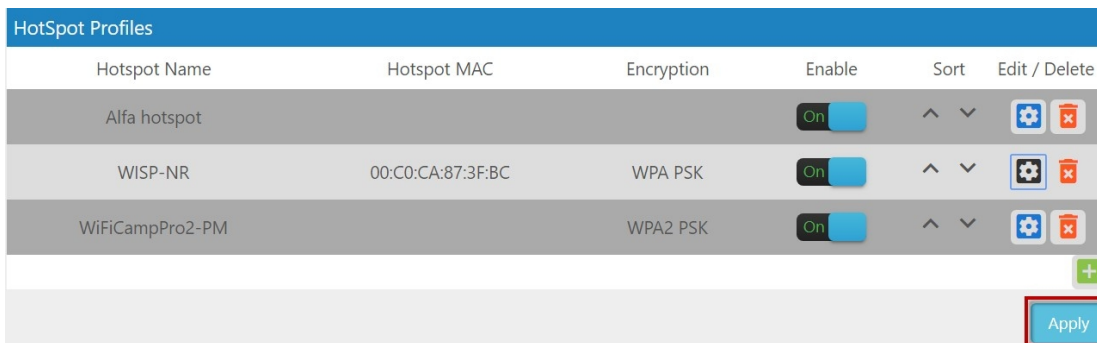
3. HotSpot Settings



- It contains history of the Profiles that was saved from previous Hotspot connection. You can Enable

, Edit , Delete or Add in each profile.

- **Edit Profile** Inside the profile you can setup HotSpot MAC, Password/Passkey, Type of Network, IP address, Netmask, Gateway and DNS Server list.



Note: if you have changed any configuration, please click Apply to save the setting.

4. Local Network

✧ Wired Network

The screenshot shows the 'Wired Network Configuration' and 'DHCP server' settings in the R36A Webpage. The left sidebar contains navigation links: Easy Setup, Status, HotSpot Settings, Local Network (selected), Wired Network (selected), Wireless 2.4G, DHCP and DNS, Tools, System, and Logout. The main content area has two sections. The 'Wired Network Configuration' section includes a 'Protocol' dropdown set to 'Static Address', an 'IP address' field with '192.168.36.1', and a 'Netmask' dropdown set to '255.255.255.0'. The 'DHCP server' section includes a 'DHCP Server' dropdown set to 'enable', a 'Start' field with '100', a 'Limit' field with '150', a 'Leasetime' field with '12h', and a 'Force' dropdown set to 'enable'. Each field has a small icon and a tooltip explaining its function. An 'Apply' button is at the bottom right, and 'ALFA Network Inc.' is at the bottom center.

Section	Field	Value
Wired Network Configuration	Protocol	Static Address
	IP address	192.168.36.1
	Netmask	255.255.255.0
DHCP server	DHCP Server	enable
	Start	100
	Limit	150
	Leasetime	12h
	Force	enable

- **Wired Network Configuration:** You can set Static Address or DHCP Client to log on your R36A Webpage setting menu.
Note: The default IP address is 192.168.36.1
- **DHCP Server:** If Enable. You can set the Start IP address, Limit the number and Leased time of subscribers.
Note: Force enables DHCP on this network even if another server is detected. Or Disable it.

✧ Wireless 2.4G

Wireless Basic Configuration

Radio On/Off ☒ On

HT Mode

Channel

Transmit power

☒ dBm

Country code

☒ Use ISO/IEC 3166 alpha2 country codes.

Wireless AP Mode Configuration

Enable ☒ On

SSID (Network Name)

MAC Address Filter

Hide SSID

WMM Mode

Encryption

Cipher

Key

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- Wireless Basic Configuration: Radio On/Off, HT Mode(None HT, HT20,HT40 Auto) , Channel selection and Use ISO/IEC 3166 alpha2 Country codes (00 World –ZW Zimbabwe)
- Wireless AP Mode Configuration: SSID, MAC Address Filter, Hide SSID, and WMM mode. The

No Encryption

WEP Open System
WEP Shared Key
WPA-PSK
WPA2-PSK
WPA-PSK/WPA2-PSK Mixed Mode
WPA-EAP
WPA2-EAP

Encryptions support as follow

✧ DHCP and DNS

The screenshot shows the 'DHCP and DNS' configuration page. The left sidebar contains the following menu items: Easy Setup, Status, HotSpot Settings, Local Network, Wired Network, Wireless 2.4G, DHCP and DNS (highlighted), Tools, System, and Logout. The main content area displays three sections: 'Active DHCP Leases' (empty), 'Active DHCPv6 Leases' (empty), and 'Static Leases' (empty). At the bottom of the main content area are 'Reset' and 'Apply' buttons.

- **Active DHCP Leases:** Current active client users list. It shows name, IP, MAC, and lease time remaining.

Active DHCP Leases			
Hostname	IPv4-Address	MAC-Address	Leasetime remaining
android-75576a5f2eb5200b	192.168.36.100	5c:70:a3:24:b1:88	9h 0m 25s
NB-DELL6400	192.168.36.183	00:21:6a:01:db:36	11h 45m 24s

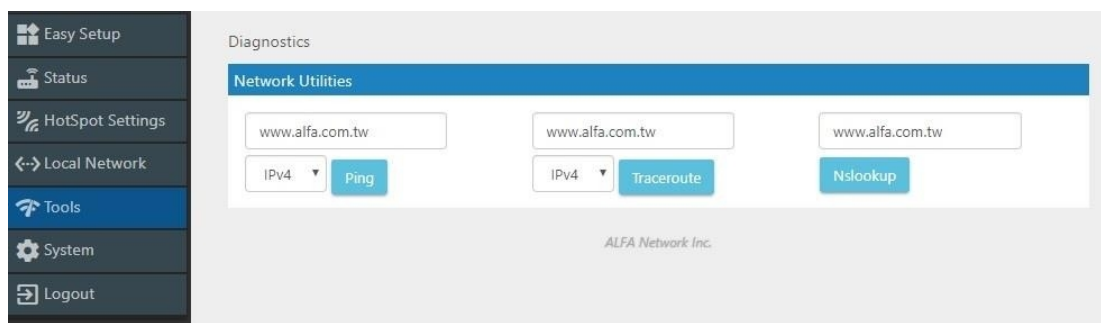
- **Active DHCPv6 Leases:** No Active IPv6 User lease.

Active DHCPv6 Leases			
Host	IPv6-Address	DUID	Leasetime remaining
There are no active leases			

- **Static Leases:** You can add or delete Static lease.

Static Leases					
Hostname	MAC Address	IPv4 Address	Lease time	IPv 6Suffix (hex)	Delete
					X
					X
	00:c0:ca:87:3f:ba (192.168.3.20)				
	5c:70:a3:24:b1:88 (192.168.36.100)				
	00:21:6a:01:db:36 (192.168.36.183)				

5. Tools: Some Network Utilities for testing Internet status.



➤ Ping: IPv4

```
PING www.alfa.com.tw (104.27.131.56): 56 data bytes
64 bytes from 104.27.131.56: seq=0 ttl=55 time=157.599 ms
64 bytes from 104.27.131.56: seq=1 ttl=55 time=156.571 ms
64 bytes from 104.27.131.56: seq=2 ttl=55 time=160.886 ms
64 bytes from 104.27.131.56: seq=3 ttl=55 time=156.031 ms
64 bytes from 104.27.131.56: seq=4 ttl=55 time=159.439 ms

--- www.alfa.com.tw ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 156.031/158.105/160.886 ms
```

➤ Trace route: IPv4

```
traceroute to www.alfa.com.tw (104.27.130.56), 30 hops max, 38 byte packets
 1  192.168.3.20  4.713 ms
 2  192.168.1.1  6.832 ms
 3  168.95.98.254  15.429 ms
 4  168.95.85.6  9.863 ms
 5  220.128.4.134  7.931 ms
 6  220.128.14.97  6.966 ms
 7  220.128.6.101  21.636 ms
 8  202.39.91.21  154.493 ms
 9  202.39.84.86  154.556 ms
10  141.101.72.250  155.804 ms
11  104.27.130.56  154.577 ms
```

➤ Nslookup:

```
Server:          127.0.0.1
Address:         127.0.0.1#53

Name:           www.alfa.com.tw
Address 1:      104.27.130.56
Address 2:      104.27.131.56
Address 3:      2400:cb00:2048:1::681b:8238
Address 4:      2400:cb00:2048:1::681b:8338
```

6. System

✧ System Time:

The screenshot shows the 'System Time' configuration page. On the left is a sidebar with navigation options: Easy Setup, Status, Local Network, Tools, System, System Time (selected), Administration, System Maintenance, and Logout. The main content area has a 'System Properties' section with 'Local time' (Tue Oct 17 17:49:30 2017), a 'Sync With Browser' button, 'Hostname' (WifiCampPro2), and 'Timezone' (UTC). Below this is a 'Time Synchronization' section with 'Enable NTP client' (On) and 'Provide NTP server' (Off). At the bottom are 'Reset' and 'Apply' buttons, and the footer says 'ALFA Network Inc.'.

- System Properties: You can set the Time Zone and Sync with browser.
- Time Synchronization: Enable NTP Client and Server.
Add or delete NTP server candidates.

This screenshot shows a list of NTP server candidates. The label 'NTP server candidates' is on the left. The list contains four entries: 0.tw.pool.ntp.org, 1.tw.pool.ntp.org, 2.tw.pool.ntp.org, and 3.tw.pool.ntp.org. Each entry has a red minus icon to its right, except for the last one which has a green plus icon.

✧ Administration:

The screenshot shows the 'Administration' configuration page. The sidebar is the same as in the previous screenshot, with 'Administration' selected. The main content area has a 'Login Password' section with 'Password' and 'Confirmation' fields, each with a lock icon. Below this is an 'SSH Access' section with 'Port' (22), a note 'Specifies the listening port of this Dropbear instance', 'Password authentication' (On), a note 'Allow SSH password authentication', 'Allow logins with password' (On), a note 'Allow the root user to login with password', 'Allow login from Internet' (Off), a note 'Allow remote hosts to connect to local SSH forwarded ports', and an 'SSH key' field. At the bottom are 'Reset' and 'Apply' buttons, and the footer says 'ALFA Network Inc.'.

- Login Password: Change login password.
- SSH Access: Setting listening Port. Allow login from Internet. (Remote hosts to connect to local SSH forwarded)

✧ System Maintenance:

The screenshot shows the 'System Maintenance' section of a web interface. On the left is a sidebar menu with options: Easy Setup, Status, HotSpot Settings, Local Network, Tools, System, System Time, Administration, System Maintenance (highlighted), and Logout. The main content area has three sections: 'System Configuration' with buttons for 'Restore to factory default' (Restore), 'Export system configuration' (Export), and 'Import system configuration' (Import); 'Firmware Upgrade' with a 'Keep current configuration' toggle (On) and a 'Firmware file' upload button (Upgrade); and 'System Reboot' with a 'System reboot' button (Reboot). The footer of the interface reads 'ALFA Network Inc.'

- **System Configuration:** Restore to factory default. Export or import system configuration. The restore to default procedure will take about 180 Seconds to erase configuration partition and reboot.

A red-bordered box contains the text 'System - Erasing...' and 'The system is erasing the configuration partition now and will reboot itself when finished.' Below this text is a loading spinner icon followed by the text 'Waiting for changes to be applied...'.

After rebooting login 192.168.36.1 and setup the new password again for later Webpage access.

Please setup the password to access setup in the future

Login

admin

Password

.....

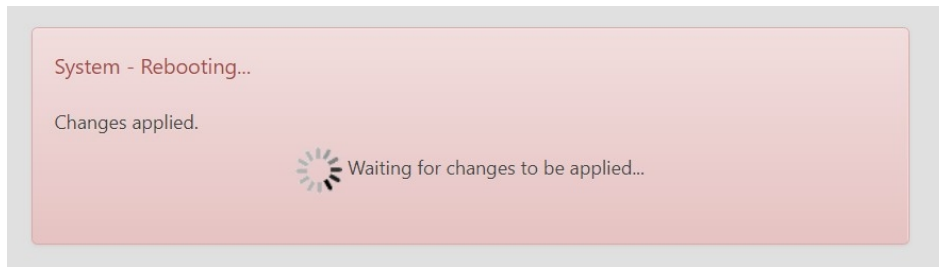
Repeat password

.....

Submit

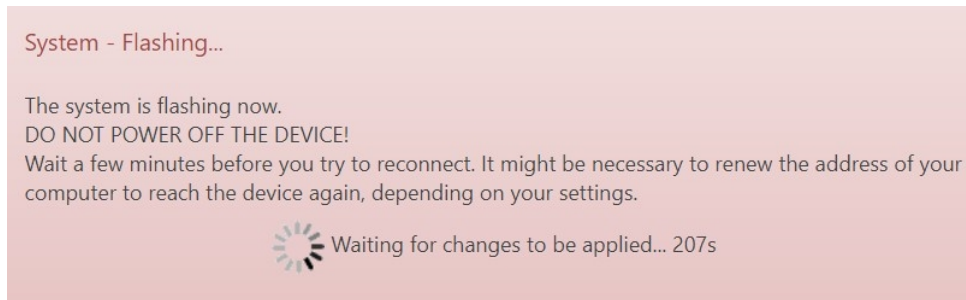
Select exported file and import the configuration.

Import system configuration backup-WiFiCampPro2-2018-09-17.tar.gz Import



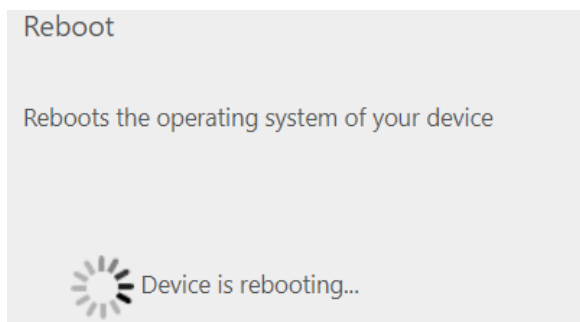
The pre saved configuration will be back after system reboot.

- **Firmware Upgrade.** Select the firmware file and upgrade it. You can either keep the current configuration or default setting. It takes about 240 Seconds for system flashing.



Note: You don't have to remove USB WLAN Adapter while upgrading firmware.

- **System Reboot:** Take about 180 Seconds to reboot.



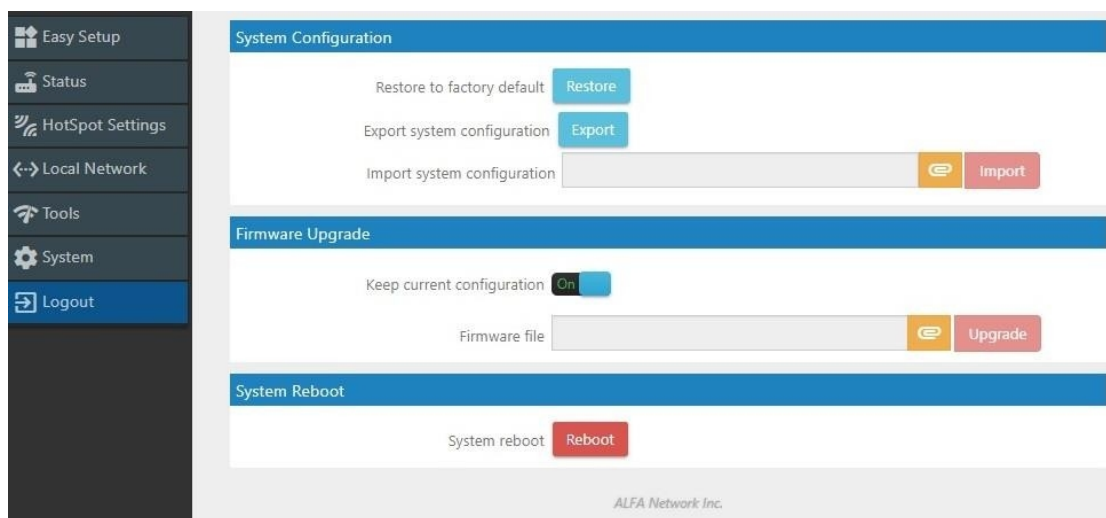
It wills lost LAN connection when the system is rebooting.



The **Device connection lost.**

Please check your connection again.

7. Logout:



It shows Login required and clicks Login to continue.

Login Required

Username

admin

Password

.....

Note: If you forgot your password, please reset device to factory default by pushing the reset button 10 seconds

Login

After Login it shows the whole R36A Status.

Internet Status

Type	USB Wireless
SSID	WISP-NR [00:C0:CA:87:3F:BC]
RSSI (Bitrate)	-25 dBm (39 Mbit/s)
Address	192.168.3.22 / 255.255.255.0
Gateway	192.168.3.20
DNS	192.168.3.20
Expires	28209
Uptime	591
Session	80

WiFiCampPro2 Status

Mode	Access Point
SSID	CampPro2Alfahotspot
Channel	1 (2.412 GHz)
Bitrate	36 Mbit/s
BSSID	00:C0:CA:96:35:EA
Encryption	mixed WPA/WPA2 PSK (CCMP)

Linked Devices Status

Hostname	IP Address	MAC Address	Signal / Noise / Leases	Interface
android-75576a5f2eb590016	192.168.36.100	C:70:A3:24:B1	-48 / -95 dBm	<->
NB-DELL6400	192.168.36.232	00:21:70:AE:5F:D8	11h 49m 34s	<->

System

Hostname	WiFiCampPro2
Model	ALFA Network R36A
Firmware Version	WiFiCampPro2-v1.10
Local Time	Mon Sep 17 07:23:37 2018
Uptime	0h 10m 39s
Memory Available	19832 kB / 60064

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."